

ELECTRIC GUITAR

AES820

SERVICE MANUAL



WARNING : CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

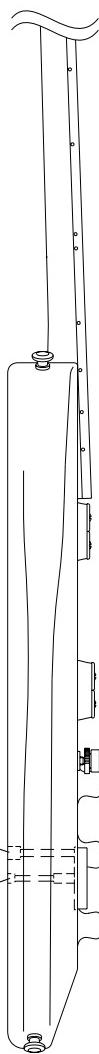
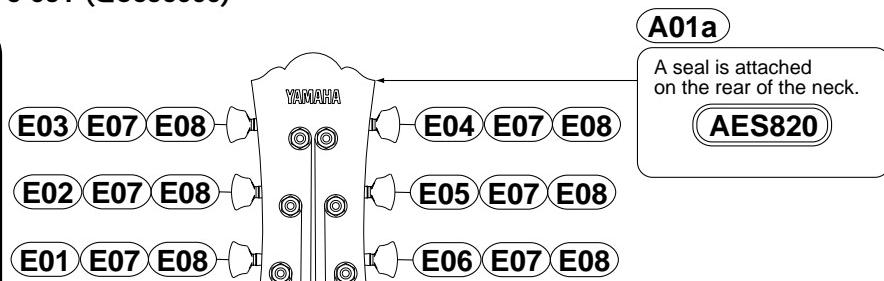
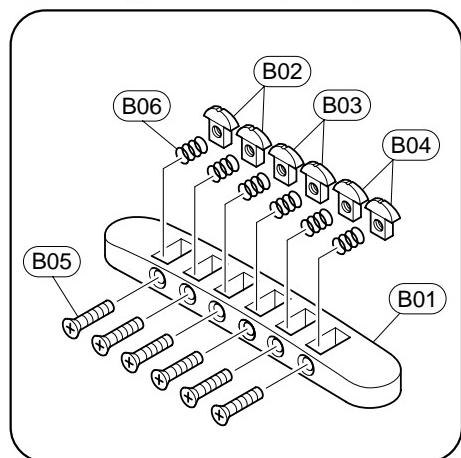
■ CONTENTS

OVERALL ASSEMBLY	2
CIRCUIT BOARD	4
CIRCUIT DIAGRAM	5
WIRING	5
SPECIFICATIONS	6

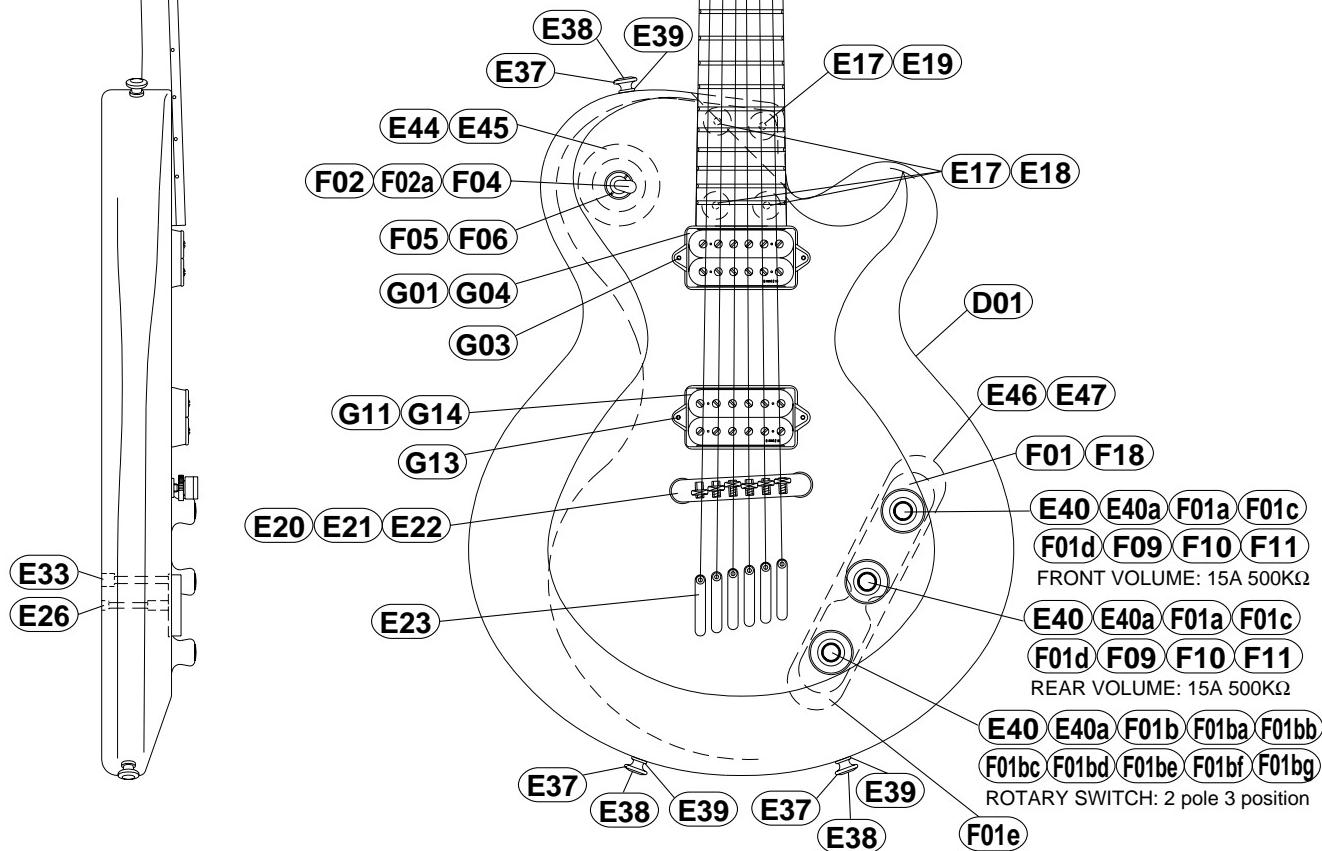
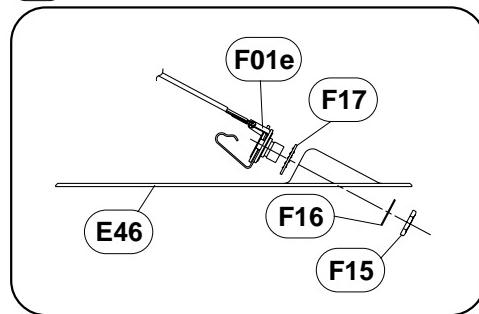
This document is printed on chlorine free (ECF) paper with soy ink.

■ OVERALL ASSEMBLY

E20 Bridge Assembly: Ping Well TP6-05Y (QC656000)

**A01****E34**

F01e Jack Installation



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* A01 A01a	AAX33280 --	OVERALL ASSEMBLY Neck Assembly Seal		AES820 (BL) (QC66280)		
D01	--	Body				
* E01 * E02 * E03 * E04 * E05 * E06 E07 E08 * E09	QC663500 QC663600 QC663700 QC663800 QC663900 QC664000 -- -- QC651900	Tuning Machine Assembly 1E Tuning Machine Assembly 2B Tuning Machine Assembly 3G Tuning Machine Assembly 4D Tuning Machine Assembly 5A Tuning Machine Assembly 6E Nut Washer Rod Cover	Trim-Lok NB1PSC Trim-Lok EXB2PSC Trim-Lok LEXB3PSC Trim-Lok LEXB4PSC Trim-Lok EXB5PSC Trim-Lok NB6PSC Chrome Chrome Chrome	Chrome Chrome Chrome Chrome Chrome Chrome with Tuning Machine Ass'y with Tuning Machine Ass'y	6 6	
E10 E11 E17 * E18 * E19 * E20 * E21 E22 * E23 * E26 * E33 E34 * E37 E38 E39 E40 E40a E44 * E45 * E46 E47	TY006000 QC574100 QC205200 QC685200 QC685100 QC656000 QC656800 QC286300 QC651700 QC668700 QC668600 -- QC656100 QA132800 VB793700 QC541700 QC532900 CB023450 EB620020 QC652000 EB620020	Oval Head Wood Screw Nut Neck Joint Bushing Oval Head Tapping Screw Oval Head Tapping Screw Bridge Assembly Bridge Adjusting Screw Nut Tailpiece Assembly Cap Screw Bushing Strings Strap Button Oval Head Tapping Screw Spacer Knob Assembly Screw Back Cover Oval Head Wood Screw Back Cover Oval Head Wood Screw	2.4X13 FCM33G Urea 43mm (Black) Black 4.5X40 FCM3BL 4.5X35 FCM3BL Ping Well TP6-05Y Ping Well TP6-05SN Ping Well TP6-3BC Ping Well TP6-01Y M3.0X30 (Black) Black D'addario XL-120 SG-type (Chrome) 3.5X25 FCM33G Felt (Black) Chrome M3.0X3 (Black) Switch (Black) 2.7X13 FCM3BL Electrical (Black) 2.7X13 FCM3BL	Chrome Black Black Black Black Chrome Black Black Chrome Chrome Chrome Chrome Black 1set Chrome Felt (Black) Black Black Black Black	4 3 2 2 6 6	04
F01 F01a F01b	-- HS120070 --	Electrical Unit Variable Resistor Electrical Unit (Switch)	15A 500K ohm	(QC66420) FRONT/REAR VOLUME (QC66440)	2	03
* F01ba F01bb F01bc F01bd F01be F01bf * F01bg F01c F01d F01e F02 F02a * F04 F05 F06	QC664900 -- -- -- UA114220 UA114470 QC665100 FG212680 Ceramic Capacitor HF858150 Resistor QC234900 Jack -- QC546700 Pickup Switch Knob -- VA295700 Washer	Rotary Switch Hexagonal Nut Flat Washer Circuit Board Mylar Capacitor Mylar Capacitor Trimmer Potentiometer Ceramic Capacitor 150K ohm 1/6W Jack Electrical Unit Pickup Switch Knob Nut Hexagonal Nut Flat Washer Toothed Lock Washer Hexagonal Nut Flat Washer Toothed Lock Washer Round Head Wood Screw	2pole 3P SRBU13S 9S 9S 0.022uF 50V K 0.047uF 50V K B20K ohm 680pF 50V 150K ohm 1/6W Korea Open-type 3P Toggle Chrome Chrome Black 8S 8S 8S 9S MFZN2BL (Black) 9S MFZN2BL (Black) 9S FNFM33G (Nickel) 2.7X13 FCM33G	with Rotary Switch with Rotary Switch (QC66480)	01 01	
F09 F10 F11 F15 F16 F17 F18	-- -- -- AA820860 AA820850 ET800180 EA620060	Hexagonal Nut Flat Washer Toothed Lock Washer Hexagonal Nut Flat Washer Toothed Lock Washer Round Head Wood Screw	8S 8S 8S 9S MFZN2BL (Black) 9S MFZN2BL (Black) 9S FNFM33G (Nickel) 2.7X13 FCM33G	with Volume with Volume with Volume with Jack Chrome	4 2 2 01 01 01 03	
* G01 G03 G04	QC664500 20454100 QC556400	Pickup Assembly Oval Head Tapping Screw Pickup Cushion	DiMarzio YHNQ4BKLR 2.4X16 FCM3BL	FRONT Black	2	01
* G11 G13 G14	QC664600 20454100 QC556400	Pickup Assembly Oval Head Tapping Screw Pickup Cushion	DiMarzio YHWQ4BKLR 2.4X16 FCM3BL	REAR Black	2	02 01 02

*: New Parts

RANK: Japan only

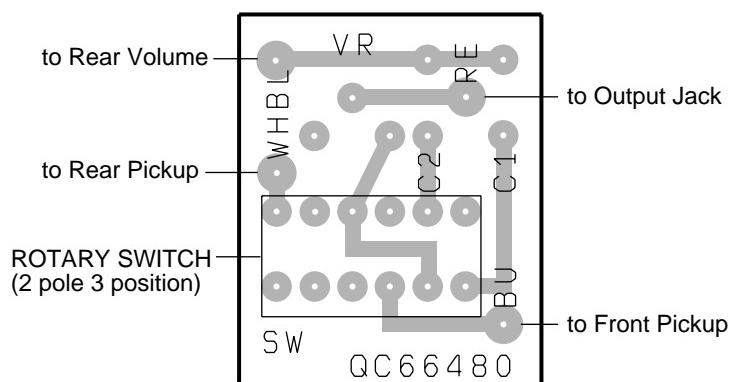
NOTE: The parts list continues to the next page.

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
H01	QC354000	Accessory Unit	G-1			07
	QA262600	Cord	D			05
	--	Wrench	#5			
*	QC656000	Bridge Assembly	Ping Well TP6-05Y	Chrome		
*	B01	QC651600	Bridge Base	Chrome		
*	B02	QC651500	Bridge Saddle	Chrome	5,6 Strings	2
*	B03	QC655800	Bridge Saddle	Chrome	3,4 Strings	2
*	B04	QC655900	Bridge Saddle	Chrome	1,2 Strings	2
*	B05	QC656900	Flat Head Screw	3.0X12 FCM33G	Chrome	6
*	B06	QC656700	Bridge Spring	L=8 (Nickel)		6

*: New Parts

RANK: Japan only

■ CIRCUIT BOARD

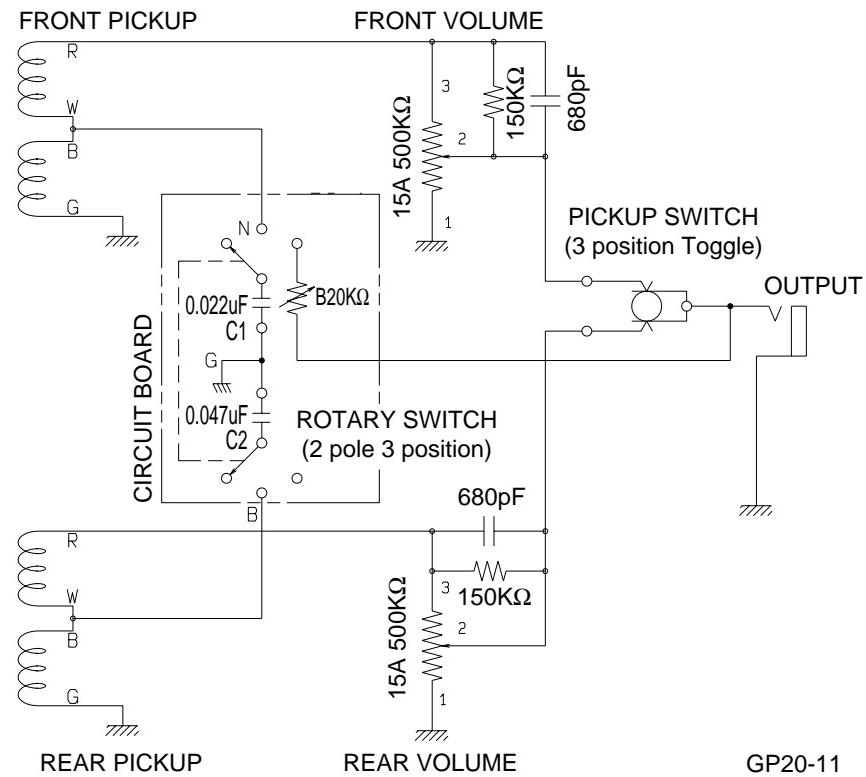


Component side

Note: See parts list for details of circuit board component parts.

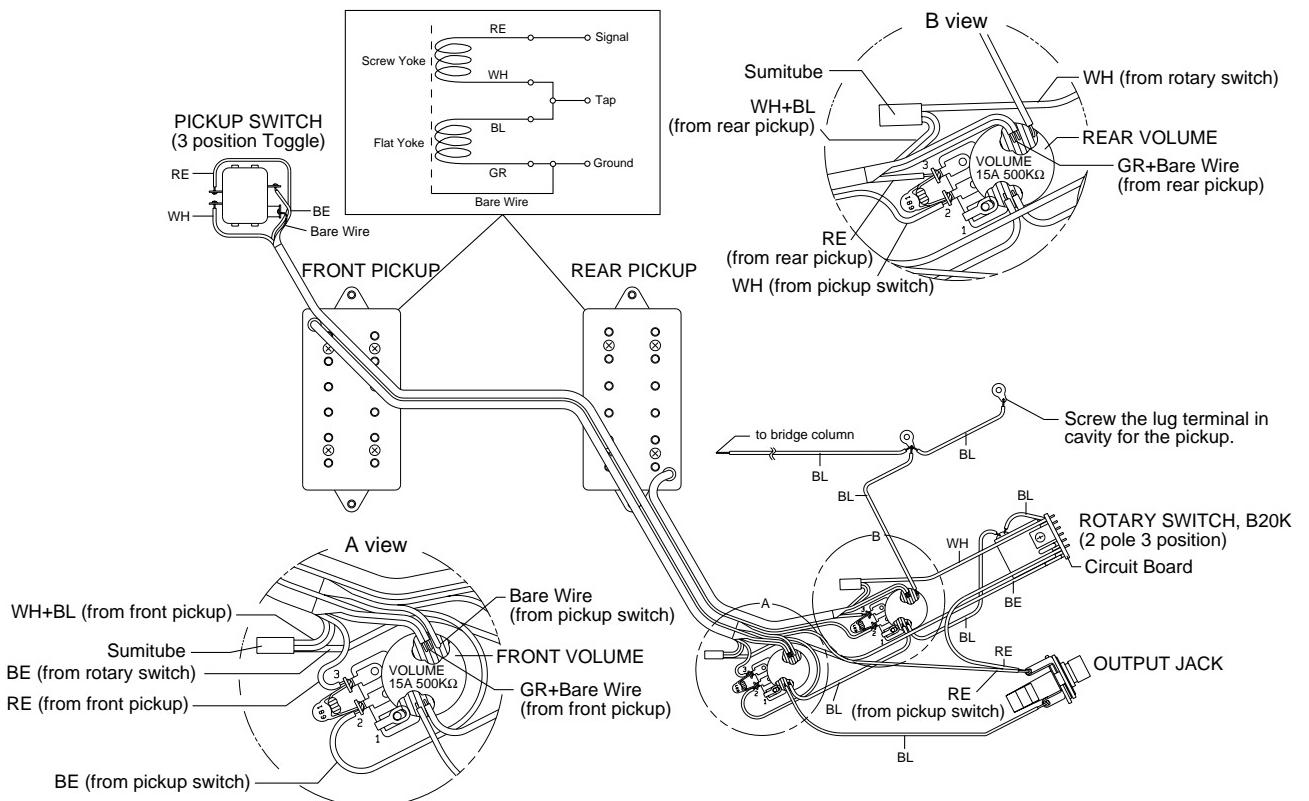
EPB-QC66480

■ CIRCUIT DIAGRAM



GP20-11

■ WIRING



■ SPECIFICATIONS

● STANDARD SPECIFICATIONS

Scale Length 628.0mm

Body-Neck Construction Bolt On

Length 995.8mm

Width 343.6mm

Net Weight 3.7kg

● COLOR

Body

BL Black

LBM Light Brown Metallic

FLB Flat Blue

Neck

BL Black

● BODY

Material Alder

Body Depth 44mm

● FINGERBOARD

Material Rose

Fingerboard Width 0-F 43.0mm, 12-F 52.5mm

No. of Frets 22

● NECK

Material Maple

Neck Thickness 1-F 21.9mm, 12-F 23.9mm

● PARTS

Hardware Chrome Plated

Nut Urea

Bridge Ping Well: TP6-05Y (Chrome)

Strings D'addario: XL-120

● CONTROLS

Volume 15A 500KΩ x 2

Rotary Switch 2 pole 3 position

Pickup Switch 3 position Toggle Switch

● PICKUPS

Front/Rear Humbucking

Magnet

Front/Rear Ferrite